Marvellous Magnetism

Launch

The children will explore magnetism and toys that use magnets.

Key dates

Home Learning due:
Tuesday 9th February.

Topic Overview

During this topic the children will be focusing on the physics area of magnetism. They will learn how magnets can attract or repel some materials and not others. After studying how magnets work, they will design and make their own magnetic toy for a special person of their choice. Children will start the toy making process by dissembling products to understand how they work and throughout the topic they will continually review and improve their designs. To make their product attractive to their chosen person, they will be refining their painting skills, learning how to mix colours effectively and experiment with creating mood with colour.

Key Vocabulary

Forces
Magnetism
Attract
Repel
Magnetic poles
Prediction
Mechanism
Metal

Learning Conversations

We will be looking at materials that attract or repel magnets. Let your child explore objects in the house that are magnetic/non-magnetic. What do they find magnetic objects to be made from? E.g. Magnetic materials are always made of metal, but not all metals are magnetic. Iron is magnetic and other metals, for example aluminium, copper and gold are not magnetic.

Talk to your child about the different uses of magnets in the home. Can they think of any? E.g. Seals on fridges and freezers, catches on wallets, purses or handbags and their use in TVs and microwaves.

Drivers

Enquiry will drive this topic as the children dissemble magnetic toys to use as inspiration for their own. They will also investigate magnetism and use their learning to create a magnetic toy.

The children will aspire to create a high quality product for their special chosen person.

Topic Challenge

Due Tues 9th February

Investigate materials that are magnetic and non-magnetic in your home. Record your findings in a table or as a picture.

Magnetic	Non-magnetic

Did you know?

Some animals are affected by magnets. Magnets have been used to study bee communication patterns, migratory cycles and several other animal behaviours. This is because many animals can sense magnetic fields. For example, some sharks are repelled by magnetic fields and some birds and turtles navigate towards them.

Landing

Children will design and make a magnetic toy for a special person of their choice. They will review other children's designs.